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AVERAGE AND PROBABILITY.

61. Proposed by COL. CLARKE.

A cube being cut at random by a plane, what is the chance that the section is a hexagon? [From *Williamson's Integral Calculus.*]

62. Proposed by O. S. KIBLER, Superintendent of Schools, Middleburg, O.

A bag contains any number of balls, which are equally likely to be white or black; one is drawn and found to be white. Show that the chance of drawing another white one, the first ball not being replaced, is two-thirds. [From *C. Smith's Treatise on Algebra*, page 615.]

*** Solutions of these problems should be sent to B. F. Finkel, not later than April 10.

MISCELLANEOUS.

60. Proposed by S. HART WRIGHT, M. D., A. M., Ph. D., Penn Yan, N. Y.

When the Sun's declination is 23° 27′ 15″ North$=\delta$, in what latitude will it shine on the *north* side of buildings during the first half of the forenoon, and on the *south* side during the other half, and what will be the length of the day?

61. Proposed by COOPER D. SCHMITT, A. M., Professor of Mathematics, University of Tennessee, Knoxville, Tenn.

The product of n numbers, each the sum of four squares, may be expressed as the sum of four squares in $(48)^{n-1}$ different ways.

*** Solutions of these problems should be sent to J. M. Colaw, not later than April 10.

NOTES.

THE EVANSTON MEETING OF THE AMERICAN MATHEMATICAL SOCIETY.

The second meeting of the Chicago Section of the American Mathematical Society was held at Evanston, Ill., on December 30th and 31st, 1897. The first session was called to order in the morning of December 30th by the chairman of the section, Head Professor Moore, University of Chicago. The following list of papers was announced:

1. Independent computation of integrals involving the square root of a quadric or cubic expression. Professor Henry Benner, Albion College.
2. Upon a ruled surface of the fourth order mechanically generated. Dr. E. M. Blake, Purdue University.
3. Upon articulated systems. Dr. E. M. Blake, Purdue University.
4. On the cubic involution and the theory of elliptic functions. Professor Oskar Bolza, University of Chicago.
5. Approximate solution of a particular differential equation. Dr. James H. Boyd, University of Chicago.
6. A note on reticulations. Professor Ellery W. Davis, University of Nebraska.